

इंटरनेट

मानक

Disclosure to Promote the Right To Information

Whereas the Parliament of India has set out to provide a practical regime of right to information for citizens to secure access to information under the control of public authorities, in order to promote transparency and accountability in the working of every public authority, and whereas the attached publication of the Bureau of Indian Standards is of particular interest to the public, particularly disadvantaged communities and those engaged in the pursuit of education and knowledge, the attached public safety standard is made available to promote the timely dissemination of this information in an accurate manner to the public.

“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 3274 (1967): Goose-neck ventilators - welded type [TED
17: Shipbuilding]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

BLANK PAGE



IS : 3274 - 1967

Indian Standard

**SPECIFICATION FOR GOOSE-NECK
VENTILATORS—WELDED TYPE**

(First Reprint SEPTEMBER 1986)

UDC 629.12.06:628.833



© Copyright 1967

**INDIAN STANDARDS INSTITUTION
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002**

AMENDMENT NO. 1 FEBRUARY 1974
TO
IS : 3274-1967 SPECIFICATION FOR GOOSE-NECK
VENTILATORS — WELDED TYPE

Alterations

(*Page 4, clause 3.3*)

- a) Substitute ' IS : 4855-1968* ' for ' IS : 2517-1963* '.
- b) *Foot-note with (*) mark* — Substitute the following for the existing foot-note:

‘ *Specification for bright steel bars for machining. ’

(EDC 56)

*Indian Standard***SPECIFICATION FOR GOOSE-NECK
VENTILATORS—WELDED TYPE**

Marine Engineering and Shipbuilding Sectional Committee, EDC 56

Chairman

REAR-ADMIRAL T. B. BOSE

Representing

In personal capacity (17, Tivoli Court, 1A Ballygunge Circular Road, Calcutta 19)

Members

CAPT P. ALEXANDER	The Company of Master Mariners of India, Bombay
CAPT P. S. VANCHISWAR (<i>Alternate</i>)	
SPR F. V. BADANI	Directorate General of Technical Development (Ministry of Industry & Supply)
SHRI K. BANERJEE	Bonar Bros & Co, Calcutta
SHRI V. G. DAMLE	AFCO Ltd, Bombay
SHRI S. J. VOKES (<i>Alternate</i>)	
SHRI A. V. DANDEKAR	Hindustan Shipyard Ltd, Visakhapatnam
SHRI P. R. DAVE	Alcock Ashdown & Co Ltd, Bombay
DIRECTOR OF MARINE ENGINEERING	Indian Navy
DIRECTOR OF NAVAL CONSTRUCTION (<i>Alternate</i>)	
SHRI B. K. GUPTA	Directorate General of Shipping (Ministry of Transport & Aviation), Bombay
SHRI A. KRISHNAN (<i>Alternate</i>)	
CAPT GURSARAN SINGH	Directorate General of Shipping (Ministry of Transport & Aviation), Bombay
CAPT M. S. PATEL (<i>Alternate</i>)	
SHRI B. HILL	Lloyd's Register of Shipping, Calcutta
SHRI R. MCINTOSH (<i>Alternate</i>)	
SHRI S. K. JOSHI	Kirloskar Oil Engines Ltd, Poona
SHRI N. D. GUPTA (<i>Alternate</i>)	
SHRI S. KASTHURI	Institution of Marine Technologists, Bombay
SHRI K. N. G. MENON (<i>Alternate</i>)	
SHRI KIRPAL SINGH	The Indian National Steamship Owners' Association, Bombay
CAPT R. D. KOHLI	The Shipping Corporation of India Ltd, Bombay
SHRI B. D. WADIA (<i>Alternate</i>)	
SHRI S. Y. KOTWAL	Siemens Engineering and Manufacturing Co of India Ltd, Bombay
SHRI J. L. AGARWAL (<i>Alternate</i>)	
COL D. A. MEHTA	Scindia Workshop Ltd, Bombay
SHRI T. A. SHAIKH (<i>Alternate</i>)	

(Continued on page 2)

INDIAN STANDARDS INSTITUTION
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI

IS : 3274 - 1967

(Continued from page 1)

<i>Members</i>	<i>Representing</i>
SHRI SHAREEF MOLOOBHOY	Ahmed S. Moloobhoy & Sons, Bombay
SHRI K. PARTHASARATHY	Directorate General of Shipping (Ministry of Transport & Aviation), Bombay
SHRI J. G. PATELL	Garden Reach Workshops Ltd, Calcutta
SHRI EDWARD RAJARATNAM	(Alternate)
SHRI S. K. PAUL	The Commissioners for the Port of Calcutta
SHRI A. SINGH (Alternate)	
DR T. S. RAGHURAM	Mazagon Dock Ltd, Bombay
SHRI S. B. DESAI (Alternate)	
SHRI T. M. SANGHAVI	The Institute of Marine Engineers, Bombay
SHRI T. K. T. SRISAILAM (Alternate)	
SHRI D. S. SHETH	Hindustan Shipyard Ltd, Visakhapatnam
SHRI B. S. SOOD	Bombay Port Trust, Bombay
SHRI G. M. RANA (Alternate)	
SHRI J. M. TRINDADE	Rivers Steam Navigation Co Ltd, Calcutta
SHRI M. VELU	Central Institute of Fisheries Technology, Ernakulam
SHRI S. J. VOKES	Indian Engineering Association, Calcutta
SHRI M. V. PATANKAR, Director (Mech Engg)	Director General, ISI (<i>Ex-officio Member</i>)

Secretary

SHRI K. S. SUBRAMANIAM
Officer on Special Duty (Mech Engg), ISI

Piping and Ventilation Subcommittee, EDC 56: 2

Convener

SHRI K. PARTHASARATHY Directorate General of Shipping (Ministry of Transport & Aviation), Bombay

Members

SHRI K. K. BANERJEE	Hindustan Shipyard Ltd, Visakhapatnam
SHRI S. K. RAJAGOPALAN (Alternate)	
SHRI P. R. DAVE	Alcock Ashdown & Co Ltd, Bombay
DIRECTOR OF NAVAL CONSTRUCTION	Indian Navy
DR T. S. RAGHURAM	Mazagon Dock Ltd, Bombay
SHRI H. C. SETHNA (Alternate)	
SHRI T. M. SANGHAVI	The Institute of Marine Engineers, Bombay
SHRI T. K. T. SRISAILAM (Alternate)	
SHRI J. M. TRINDADE	Rivers Steam Navigation Co Ltd, Calcutta
SHRI R. P. WANKADIA	Scindia Workshop Ltd, Bombay

Panel for Ventilation, EDC 56: 2/P-2

Convener

SHRI K. PARTHASARATHY Directorate General of Shipping (Ministry of Transport & Aviation), Bombay

Members

DIRECTOR OF NAVAL CONSTRUCTION	Indian Navy
SHRI S. K. RAJAGOPALAN	Hindustan Shipyard Ltd, Visakhapatnam
SHRI J. M. TRINDADE	Rivers Steam Navigation Co Ltd, Calcutta

Indian Standard

SPECIFICATION FOR GOOSE-NECK VENTILATORS—WELDED TYPE

0. FOREWORD

0.1 This Indian Standard was adopted by the Indian Standards Institution on 24 February 1967, after the draft finalized by the Marine Engineering and Shipbuilding Sectional Committee had been approved by the Mechanical Engineering Division Council.

0.2 Goose-neck ventilators are used on board ships for natural ventilation to stores, lockers, etc. They are directly welded to the deck.

0.3 For the preparation of this standard assistance has been derived from JIS F 2408-1957 'Goose-neck ventilators', issued by Japanese Industrial Standards Committee.

0.4 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated expressing the result of a test, shall be rounded off in accordance with IS: 2-1960*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

1. SCOPE

1.1 This standard specifies the requirements of goose-neck ventilators.

2. TYPES

2.1 Goose-neck ventilators shall be of two types, namely Type A and Type B.

3. MATERIAL

3.1 The main body of the goose-neck ventilator, Type A, shall be made out of plates of 8 mm thick conforming to IS: 2062-1962†.

3.2 The main body of the goose-neck ventilator, Type B, shall be made out of heavy quality tubes conforming to IS: 1239-1964‡.

*Rules for rounding off numerical values (*revised*).

†Structural steel (fusion welding quality).

‡Specification for mild steel tubes and tubulars (*revised*).

IS : 3274 - 1967

3.3 The material for hinge bolt and pivoting pins shall conform to IS: 2517-1963* and IS:1732-1961†, respectively.

3.4 The welding rods shall conform to IS:1278-1958‡.

4. WELDING

4.1 The welding practice shall be in accordance with IS:1323-1959§.

5. GALVANIZING

5.1 All parts shall be galvanized in accordance with IS: 2629-1966||.

6. DIMENSIONS

6.1 The shape and dimensions for Type A and Type B goose-neck ventilators shall be as shown in Fig. 1 and Fig. 2 respectively.

6.2 The dimensions of the split cotter pin shall be in accordance with IS: 549-1961¶.

7. TOLERANCES

7.1 The tolerances on all dimensions shall be according to coarse series of IS: 2102-1962**.

7.2 The tolerances on plates shall conform to those given in IS: 1730-1961††.

8. MARKING

8.1 The goose-neck ventilator — welded type may be marked with the ISI Certification Mark.

NOTE — The use of the ISI Certification Mark is governed by the provisions of the Indian Standards Institution (Certification Marks) Act, and the Rules and Regulations made thereunder. Presence of this mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard, under a well-defined system of inspection, testing and quality control during production. This system, which is devised and supervised by ISI and operated by the producer, has the further safeguard that the products as actually marketed are continuously checked by ISI for conformity to the standard. Details of conditions, under which a licence for the use of the ISI Certification Mark may be granted to manufacturers or processors, may be obtained from the Indian Standards Institution.

*Bright bars for threaded components.

†Dimensions for rounded and square steel bars for structural and general engineering purposes.

‡Filler rods and wires for gas welding.

§Code of practice for oxy-acetylene welding for structural work in mild steel

||Code of practice for hot-dip galvanizing of iron and steel.

¶Split cotter pins (*revised*).

**Recommendations for machining deviations for dimensions without specified tolerances.

††Dimensions for steel plate, sheet and strip for structural and general engineering purposes.

AMENDMENT NO. 1 FEBRUARY 1974
TO
IS : 3274-1967 SPECIFICATION FOR GOOSE-NECK
VENTILATORS — WELDED TYPE

Alterations

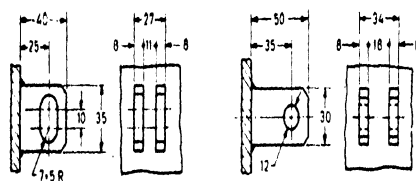
(*Page 4, clause 3.3*)

- a) Substitute ' IS : 4855-1968* ' for ' IS : 2517-1963* '.
- b) *Foot-note with (*) mark* — Substitute the following for the existing foot-note:

‘ *Specification for bright steel bars for machining. ’

(EDC 56)

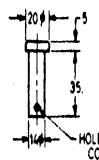
Reproduced by Reprography Unit, ISI, New Delhi



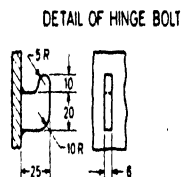
DETAIL OF B



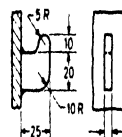
DETAIL OF
COVER HINGE



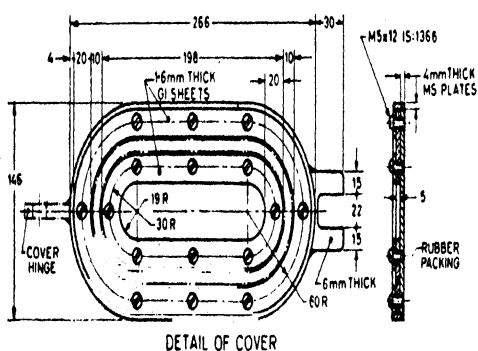
DETAIL OF
COVER HINGE PIN



DETAIL OF HINGE BOLT



DETAIL OF C



DETAIL OF COVER

FIG. 1 DIMENSIONS FOR TYPE A GOOSE-NECK VENTILATORS

INDIAN STANDARDS INSTITUTION

Headquarters:

Manak Bhavan, 9 Bahadur Shah Zafar Marg
NEW DELHI 110002
Telephones : 331 0131
331 1375

Telegrams : Manaksanstha
(Common to all Offices)

Regional Offices:

	Telephone
*Western : Manakalaya, E9 MIDC, Marol Andheri (East) BOMBAY 400093	6 32 92 95
†Eastern : 1/14 C. I. T. Scheme VII M V.I.P. Road, Maniktola CALCUTTA 700054	36 24 99
Northern : SCO 445-446, Sector 35-C CHANDIGARH 160036	{ 2 18 43 3 16 41
Southern : C. I. T. Campus MADRAS 600113	{ 41 24 42 41 25 19 41 29 16

Branch Offices:

'Pushpak', Nurmohamed Shaikh Marg, Khanpur AHMADABAD 380001	{ 2 63 48 2 63 49
F' Block, Unity Bldg, Narasimharaja Square BANGALORE 560002	22 48 06
Gangotri Complex, 5th Floor, Bhadbhada Road, T. T. Nagar BHOPAL 462003	6 67 16
Plot No. 82/83, Lewis Road, BHUBANESHWAR 751002	5 36 27
53/5 Ward No. 29, R. G. Barua Road, 5th Byelane GUWAHATI 781003	—
5-8-56C L. N. Gupta Marg, HYDERABAD 500001	22 10 83
R14 Yudhister Marg, C Scheme, JAIPUR 302005	{ 6 34 71 6 98 32
117/418 B Sarvodaya Nagar, KANPUR 208005	{ 21 68 76 21 82 92
Patliputra Industrial Estate, PATNA 800013	6 23 05
Hantex Bldg (2nd Floor), Rly Station Road, TRIVANDRUM 695001	52 27
<i>Inspection Office (With Sale Point):</i>	
Institution of Engineers (India) Building, 1332 Shivaji Nagar PUNE 411005	5 24 35

*Sales Office in Bombay is at Novelty Chambers, Grant Road,
BOMBAY 400007 89 65 28

†Sales Office in Calcutta is at 5 Chowringhee Approach,
P.O. Princep Street, CALCUTTA 700072 27 68 00